TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement
Date of Sample Tested	29.07.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	382 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
Location/Source	At Site/Plant	Date of Sampling	29.07.2019
Period of Soaking	24 hours	Date of Testing	29.07.2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		650	642	674	
B	Weight of oven - dry sample gm.		638	632	662	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1686	1680	1700	
E	Bulk specific gravity	B / (C + A - D)	2.669	2.667	2.659	**2.665**
G	Absorption (%)	(A - B) *100 / B	1.881	1.582	1.813	**1.759**

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TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants, Bangalore				
Contractor	M/s N LOKANATH REDDY				
SIEVE ANALYSIS					
Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/ M sand)**		**Proposed Use**	**Concrete**	
Sample Location	At Site/Plant		**Date of Sampling**	29.07.2019	
			Date of Testing	29.07.2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	216	216	7.20	92.80	**90 - 100**
2.36 mm	310	526	17.53	82.47	**75 - 100**
1.18 mm	418	944	31.47	68.53	**55 - 90**
0.600 mm	482	1426	47.53	52.47	**35 -59**
0.300 mm	754	2180	72.67	27.33	**8-30**
0.150 mm	624	2804	93.47	6.53	**0 - 10**
Pan	196	3000			-
Remarks :		✓ Satisfactory / Not Satisfactory			

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhath Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s N LOKANATH REDDY				
Total Weight in gm:	3000				
SIEVE ANALYSIS					
Type of Material	40 mm down size			**Proposed Use**	PCC
Sample Location	At Site/Plant			**Date of Sampling**	29.07.2019
				Date of Testing	29.07.2019

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	86	86	2.87	97.13	95-100
20.00mm	1412	1498	49.93	50.07	30-70
10.00mm	965	2463	82.10	17.90	10-35
4.75mm	444	2907	96.90	3.10	0-5
Pan	93	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

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CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement
Date of Sample Tested	30.07.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	375 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
Location/Source	At Site/Plant	Date of Sampling	30.07.2019
Period of Soaking	24 hours	Date of Testing	30.07.2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		648	662	678	
B	Weight of oven - dry sample gm.		638	650	668	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1684	1692	1702	
E	Bulk specific gravity	B / (C + A - D)	2.669	2.653	2.661	2.661
G	Absorption (%)	(A - B) *100 / B	1.567	1.846	1.497	1.637

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TEJUS CONSULTANTS

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants, Bangalore				
Contractor	M/s N LOKANATH REDDY				
SIEVE ANALYSIS					
Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	Concrete	
Sample Location	At Site/Plant		Date of Sampling	30.07.2019	
			Date of Testing	30.07.2019	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	220	220	7.33	92.67	90 - 100
2.36 mm	316	536	17.87	82.13	75 - 100
1.18 mm	416	952	31.73	68.27	55 - 90
0.600 mm	480	1432	47.73	52.27	35 -59
0.300 mm	756	2188	72.93	27.07	8-30
0.150 mm	626	2814	93.80	6.20	0 - 10
Pan	186	3000			-
Remarks :			✓ Satisfactory / Not Satisfactory		

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Bangalore

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhath Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	M/s N LOKANATH REDDY				
Total Weight in gm:	3000				
SIEVE ANALYSIS					
Type of Material	40 mm down size			**Proposed Use**	PCC
Sample Location	At Site/Plant			**Date of Sampling**	30.07.2019
				Date of Testing	30.07.2019
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size**
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	88	88	2.93	97.07	95-100
20.00mm	1392	1480	49.33	50.67	30-70
10.00mm	962	2442	81.40	18.60	10-35
4.75mm	452	2894	96.47	3.53	0-5
Pan	106	3000	100.00	0.00	
Remarks :			Satisfactory / Not Satisfactory		

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Assistant Executive Engineer,
Kodigehalli Sub Division,
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Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement

Project	Contruction of RCC Retaing wall near water tank (Behind gvnt School) in Sanjeevini Nagar ward no7 Byataranapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	05.08.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	334 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	7mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Authorised Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Contruction of RCC retaing wall near water tank (behind gvnt school) in Sanjeevini Nagar ward no7 Byataranapura.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	05-08-2019
Period of Soaking	24 hours	**Date of Testing**	05-08-2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		650	680	656	
B	Weight of oven - dry sample gm.		640	670	648	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1682	1701	1690	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.634	2.638	2.689	**2.653**
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.563	1.493	1.235	**1.430**

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TEJUS CONSULTANTS (I) PVT. LTD.

Authorised Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT					
Clients		Bruhat Bangalore Mahanagara Palike			
Project		Contruction of RCC retaing wall near water tank (behind gvnt school) in Sanjeevini Nagar ward no7 Byataranapura.			
Consultants		TEJUS CONSULTANTS Basaveshwar Nagar Bangalore			
Contractor		Sri. N Lokanath Reddy			
Total Weight:	3000	gms			
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	concrete	
Sample Location	At Site/Plant		Date of Sampling	05-08-19	
			Date of Testing	05-08-19	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	308	520	17.33	82.67	75 - 100
1.18 mm	420	940	31.33	68.67	55 - 90
0.600 mm	488	1428	47.60	52.40	35 -59
0.300 mm	708	2136	71.20	28.80	8-30
0.150 mm	630	2766	92.20	7.80	0 - 10
Pan	234	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. N Lokanath Reddy	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	05-08-2019
		Date of Testing	05-08-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	259	259	2.59	97.41	95 - 100
10.00 mm	4837	5096	50.96	49.04	25 - 55
4.75 mm	4219	9315	93.15	6.85	0 - 10
Pan	685	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Bangalore.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Detailed Estimate for Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Site/Plant		**Date of Sampling**	05-08-2019	
			Date of Testing	05-08-2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	567	567	5.67	94.33	**90-100**
10.0	4657	5224	52.24	47.76	**40-85**
4.75	4529	9753	97.53	2.47	**0-10**
Pan	247	10000			
Remarks :			✓ Satisfactory / Not Satisfactory		

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Bangalore.

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	05-08-2019	12-08-2019	7 days	8.120	22500	281	12.49	12.58
2	05-08-2019	12-08-2019	7 days	8.130	22500	285	12.67	
3	05-08-2019	12-08-2019	7 days	8.140	22500	283	12.58	

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Bangalore.

TEJUS
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	05-08-2019	02-09-2019	28 days	8.130	22500	435	19.33	19.36
2	05-08-2019	02-09-2019	28 days	8.138	22500	432	19.20	
3	05-08-2019	02-09-2019	28 days	8.146	22500	440	19.56	

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